Compare Fraction Worksheets
(using Benchmarks on the Number Line)

1. a. Plot the following points on the number line without measuring.

    i. $\frac{1}{3}$ ii. $\frac{5}{6}$ iii. $\frac{7}{12}$

    b. Use the number line in Part (a) to compare the fractions by writing >, <, or = on the lines.

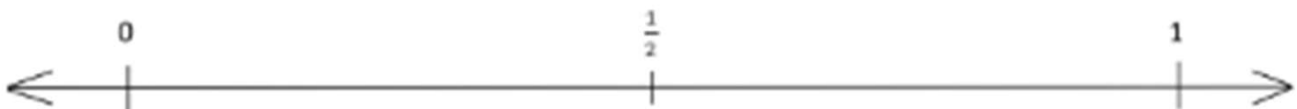   i. $\frac{7}{12}$ _____ $\frac{1}{2}$ ii. $\frac{7}{12}$ _____ $\frac{5}{6}$

2. a. Plot the following points on the number line without measuring.

    i. $\frac{11}{12}$ ii. $\frac{1}{4}$ iii. $\frac{3}{8}$

    b. Select two fractions from Part (a), and use the given number line to compare them by writing >, <, or =.

    c. Explain how you plotted the points in Part (a).

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1.

a. Plot the following points on the number line without measuring.

    i. $\frac{1}{3}$ ii. $\frac{5}{6}$ iii. $\frac{7}{12}$

$$0 \quad\quad\quad\quad \tfrac{1}{3} \quad\quad \tfrac{1}{2}\ \tfrac{7}{12} \quad\quad\quad \tfrac{5}{6} \quad\quad 1$$

b. Use the number line in Part (a) to compare the fractions by writing >, <, or = on the lines.

    i. $\frac{7}{12}\ \underline{\ >\ }\ \frac{1}{2}$ ii. $\frac{7}{12}\ \underline{\ <\ }\ \frac{5}{6}$

2.

a. Plot the following points on the number line without measuring.

    i. $\frac{11}{12}$ ii. $\frac{1}{4}$ iii. $\frac{3}{8}$

$$0 \quad\quad\quad \tfrac{1}{4} \quad\ \tfrac{3}{8} \quad\quad \tfrac{1}{2} \quad\quad\quad\quad \tfrac{11}{12}\ 1$$

b. Select two fractions from Part (a), and use the given number line to compare them by writing >, <, or =.

$$\frac{3}{8} < \frac{11}{12}$$

c. Explain how you plotted the points in Part (a).

I decomposed $\frac{1}{2}$ into 2 parts to find $\frac{1}{4}$. I decomposed a fourth into 2 parts to find $\frac{3}{8}$. Decomposing a fourth into 3 parts helped me find $\frac{11}{12}$.